

ABSTRACT

VISUAL DISPLAY PROVIDED WITH SECURED ELECTRONIC ARCHITECTURE

The invention relates to a display device with a secured electronic architecture for aeronautical applications. Each device comprises an electronic computer and an associated matrix-type display device. The invention applies essentially to display systems having a small number of large-sized screens.

The invention proposes to structure the display device as two independent display zones and the computer as two electronic subassemblies, which are also independent, in such a way that a failure of one of the elements entails, at most, only the failure of just one zone of the display device.

The invention applies essentially to liquid-crystal active-matrix display devices having a lighting system based on fluorescent tubes.

Two embodiments of the display zones are described. In the first embodiment, only one part of the area of the screen is lost in the event of a failure. In the second embodiment, the resolution of the display screen is simply downgraded by a factor of 2 in the event of a failure.

FIGURE 4